

Foreword

The International Magnetospheric Study (IMS) was an international cooperative undertaking conducted in 1976–1978. As a major enterprise of IMS, the coordinated observations from ground-based facilities, balloons, sounding rockets and spacecrafts were carried out in Antarctica. Active and successful operations in Antarctica have led to the significant informations on magnetospheric investigations.

The first symposium on the results of IMS was held at La Trobe University, Melbourne, Australia from 27 November to 1 December, 1979 as a part of the XVII General Assembly of the International Union of Geodesy and Geophysics. The symposium was cosponsored by Scientific Committee on Solar-Terrestrial Physics (SCOSTEP), International Association of Geomagnetism and Aeronomy (IAGA), Australian Academy of Sciences and Australian Institute of Physics.

Antecedently to this Symposium on IMS, Professor NAGATA, chairman of the IAGA Interdivisional Commission on Antarctic Research, encouraged all commission members and their colleagues to present the scientific results obtained in Antarctica. They read 13 papers, including the results obtained in Sub-Antarctica, at this symposium. This special volume of *Memories of National Institute of Polar Research* contains 11 papers, *i.e.*, one paper on sounding rockets, two papers on satellite and eight papers on ground-based observations which were carried out in Antarctica during the IMS period.

After devoted service for 6 years as the chairman of the IAGA Interdivisional Commission on Antarctic Research, Professor NAGATA was relieved of heavy burdens on the occasion of IAGA business session of Antarctic Commission held at Canberra in December 1979. As is illustrated in the dedication by Professor TROITSKAYA in this volume, Professor NAGATA has been always wise planner and promoter of Antarctic research in the wide varieties of scientific disciplines. His leadership in Antarctic research has been very important and indispensable throughout the last twenty years. It is a great honor for us to dedicate this volume to Professor NAGATA on behalf of not only space physicists but also many geophysicists in other field of Antarctic research.

At last, but not at least, I extend my sincere gratitude to Professor K. D. COLE, chairman, Local Organizing Committee of the first IMS symposium and his colleagues for their collaboration in the organization and successful administration of the IMS symposium.

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Takeo HIRASAWA, Editor
Secretary, IAGA Interdivisional
Commission on Antarctic Research